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A method comprising: 1. 1 forming a buried line of a first conductive type 2 in a substrate, said buried line including a pair of more 3 lightly doped regions around a more heavily doped region; 4 creating a region of a second conductivity type 5 opposite said first conductivity type over said line; and 6 forming a\phase-change material over said region.

- The method of claim 1 including forming a passage 1 through a dielectric layer. 2
- The method of claim 2 including forming a contact 1 layer under said dielectric layer and forming said passage 2 through said dielectric layer to said contact layer. 3
- The method of claim 3 including forming the 1 phase-change material in said passage. 2
- The method of claim 1 including forming a buried 1 line wherein said lightly doped regions reduce the reverse 2 bias leakage of said line. 3
- The method of claim 5 including forming said more 1 lightly doped regions using ion implantation. 2

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- 7. The method of claim 1 including forming a pair of trenches on either side of said buried line.
- 1 8. The method of claim 1 wherein forming a buried
- 2 line includes forming a buried wordline.
- 1 9. The method of claim 1 including forming said more
- 2 lightly doped regions of N type material.
- 1 10. The method of claim 9 including forming a P type
- 2 region over said buried line and forming said buried line
- 3 in a P type substrate.
 - 11. A membry cell comprising:
 - a substrate;
- a phase-change material over said substrate;
- a buried line of a first conductivity type in
- 5 said substrate, said buried line including a pair of more
- 6 lightly doped region; around a more heavily doped region;
- 7 and
- a region of a second conductivity type opposite
- 9 said first conductivity type over said line and under said
- 10 phase-change material.

- 1 12. The memory cell of claim 11 including a
- 2 dielectric material defining a pore over the substrate,
- 3 said phase-change material being formed in said pore.
- 1 13. The memory cell of claim 12 including a contact
- 2 layer under said dielectric layer aligned with said pore.
- 1 14. The memory cell of claim 13 wherein said lightly
- 2 doped regions reduce the reverse bias leakage of said line.
- 1 15. The memory cell of claim 13 including a pair of 2 trenches on either side of said buried line.
- 1 16. The memory cell of claim 11 wherein said line is
- 2 a wordline that couples to other memory cells.
- 1 17. The memory cell of claim 11 wherein said lightly
- 2 doped regions are N-type material.
- 1 18. The memory cell of claim 17 wherein said lightly
- 2 doped regions are N- regions.
- 1 19. The memory cell of claim 18 wherein said
- 2 substrate is a P-type substrate.

1	20.	The	memory	cell	οf	claim	12	wherein	said	pore	is
2	lined with	ı a	sidewall	. spac	cer	•					

- 2 21. An electronic device comprising:
 2 a surface;
 3 a phase-change material over said surface; and
 4 a conductive line in said surface having a more
 5 heavily doped region sandwiched between more lightly doped
 6 regions, said conductive line providing signals to said
 - 1 22. The device of claim 21 wherein said phase-change 2 material forms a memory cell of a storage.
 - 1 23. The device of claim 22 wherein said storage is 2 part of a computer.
 - 1 24. The device of claim 22 including a processor, an 2 interface and a bus coupled to said storage.
 - 1 25. The device of claim 22 wherein said conductive
 - 2 line is a buried wordline.

phase-change material.

- 1 26. The device of claim 25 including a conductive
- 2 material between said phase-change material and said
- 3 conductive line.

- 1 27. The device of claim 26 wherein said conductive
- 2 line is formed of a material having a first conductivity
- 3 type, a material of a second conductivity type being
- 4 defined in said surface over said conductive line.
- 1 28. The device of claim 27 wherein said more heavily
- 2 doped region is an N+ region and said more lightly doped
- 3 regions are N- regions.
- 1 29. The device of claim 21 wherein said surface
- 2 includes a semiconductor substrate.
- 1 30. The device of claim 29 including an insulator
- 2 material positioned over said surface and a pore being
- 3 formed in said insulator material, said phase-change
- 4 material being formed in said pore.